Single-phase alternating current electricity meter, Kontakt, LJ type.

AUTHOR

TIME AND PLACE OF CREATION

Time:
1935

TECHNICAL DATA

Dimensions:
height: 195 mm, width: 140 mm, depth: 115 mm

OTHER

MIM 1711/IV/84

KEYWORDS

energetyka, licznik, urządzenia pomiarowe, prąd

DESCRIPTION

The induction-type meter is the oldest type of device for the measurement of alternating current consumption. The author of the concept and the owner of its patent of 1889 was the Hungarian inventor, engineer, and electrician Ottó Titusz Bláthy, who worked for the Ganz electrical engineering enterprise. In an induction-type meter , an aluminium disc rotates in the magnetic field generated by two coils connected to electricity, and the moving disc is connected to a drum mechanism allowing readout of indications of the counter, showing the amount of electricity consumed in proportion to the number of rotations completed by the disc. This principle makes it possible to measure the consumption of both single- and three-phase current. Single-phase current is usually sufficient for powering dwellings where the power consumption is not large enough to require a three-phase system that would deliver more power. The device presented here was made in the Lviv factory of Towarzystwo Elektryczne Kontakt (TE Kontakt), which was established in 1918. The company produced household electrical appliances. At present, the company that evolved

from TE Kontakt manufactures electric vehicles, among other products, in Ukraine. Interesting fact: from its inception until today, the concept of an induction-type meter has undergone many improvements, allowing the inaccuracy of power consumption measurement to be greatly reduced. References: S. Bolkowski, Teoria obwodów elektrycznych, Warsaw 2010. S. Krakowiak, Podstawy elektrotechniki - zagadnienia wybrane, Warsaw 2006, http://www.elektrycywiejscy.irsep.org/downloads/podstawy-sklad.pdf (Accessed: 9.05.2021). W. Mędrzecki, Skarb narodowy bez dna, „Pomocnik Historyczny" [insert in:] „Polityka" 2015, issue 2, p. 84. "Przegląd Elektrotechniczny: organ Stowarzyszenia Elektrotechników Polskich" magazine, R. XIII, Z. 23, 1931, available at: https://delibra.bg.polsl.pl/dlibra/publication/25197/edition/23507/przeglad-elektrotechniczny-r-13-z-23?language=pl (Accessed: 9.05.2021).